

STIC-Biotech/ChemLib

87940

From: Schultz, James
Sent: Monday, March 03, 2003 11:07 AM
T : STIC-Biotech/ChemLib
Subject: sequence search request for 10/003,919

Hello,

I need a length limited nucleotide sequence search performed on SEQ ID NO:3 (5273 nt long) in the above entitled case, where the maximum size of the returned hit is no longer than 50 nucleotides.

Thank you very much,
Doug Schultz

J. Douglas Schultz, Ph.D.
AU 1635 (Biotechnology)
Patent Examiner
United States Patent and Trademark Office
(703) 308-9355
(703) 746-3973 (fax)
Office: CM1 12E18
Mail: CM1 11E12

Point of Contact:
Barb O'Bryen
Technical Information Specialist
STIC CM1 6A05 308-4291

Searcher: POB
Phone: _____
Location: _____
Date Picked Up: _____
Date Completed: 3-12-03
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:

NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)

STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

BioTech-Chem Library

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the BioTech-Chem searcher* who conducted the search *or contact*:

Mary Hale, Supervisor, 308-4258
CM-1 Room 1E01

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* (Example: 1610)

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

Drop off completed forms at the Circulation Desk CM-1, or send to Mary Hale, CM1-1E01 or mary.hale@uspto.gov

GenCore version 5.1.4-p5.4578
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OM nucleic - nucleic search, using sw model

Run on: March 11, 2003, 17:41:50 : Search time 13178 Seconds

(without alignments)
11645.097 Million cell updates/sec

Title: US-10-003-919-3

Sequence: 1 ctggagcatgcctccaccagc.....aatgctctcttcttaaaa 5273

Scoring table: IDENTITY-NUC
Gapop 10.0, Gapext 1.0

Searched: 205640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Maximum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Database:

GenBank:*

1: gb-ba:*
2: gb-bc:*
3: gb-bd:*
4: gb-bf:*
5: gb-bi:*
6: gb-bj:*
7: gb-bk:*
8: gb-bl:*
9: gb-bm:*
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11: gb-bp:*
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84: gb-en:*
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86: gb-ep:*
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88: gb-er:*
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90: gb-et:*
91: gb-ev:*
92: gb-fw:*
93: gb-fx:*
94: gb-fy:*
95: gb-fz:*
96: gb-ga:*
97: gb-gb:*
98: gb-gc:*
99: gb-gd:*
100: gb-ge:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30.8	0.6	44	131473	131473 Sequence 38
2	30.6	0.6	31	BD002934	BD002934 Gene comp
3	30.6	0.6	31	BD002935	BD002935 Gene comp
4	30.6	0.6	31	BD002936	BD002936 Gene comp
5	30.6	0.6	31	BD002937	BD002937 Gene comp
6	30.6	0.6	31	BD002938	BD002938 Gene comp
7	30.6	0.6	31	BD002939	BD002939 Gene comp
8	30.6	0.6	31	BD002940	BD002940 Gene comp
9	30.6	0.6	31	BD002941	BD002941 Gene comp
10	30.6	0.6	31	BD002942	BD002942 Gene comp
11	30.6	0.6	31	BD002943	BD002943 Gene comp
12	28.4	0.5	50	AK323400	AK323400 Sequence
13	28.4	0.5	50	AK323401	AK323401 Sequence
14	25.8	0.5	50	AK323402	AK323402 Sequence
15	25.4	0.5	43	YSCMT032	Y01517 Yeast (S-ce
16	24.8	0.5	30	YSCMT032	Y01517 Yeast (S-ce
17	24.8	0.5	30	YSCMT032	Y01517 Yeast (S-ce
18	24.8	0.5	30	YSCMT032	Y01517 Yeast (S-ce
19	24.8	0.5	30	YSCMT032	Y01517 Yeast (S-ce
20	24.4	0.5	28	AK323403	AK323403 Sequence
21	23.6	0.4	32	AK323404	AK323404 Sequence
22	23.6	0.4	32	AK323405	AK323405 Sequence
23	23.4	0.4	34	AK323406	AK323406 Sequence
24	23.4	0.4	35	AK323407	AK323407 Sequence
25	23.4	0.4	35	AK323408	AK323408 Sequence
26	23.4	0.4	35	AK323409	AK323409 Sequence
27	23.4	0.4	35	AK323410	AK323410 Sequence
28	23.4	0.4	35	AK323411	AK323411 Sequence
29	23.4	0.4	40	AK323412	AK323412 Sequence
30	23.4	0.4	41	AK323413	AK323413 Sequence
31	23.4	0.4	42	AK323414	AK323414 Sequence
32	23.4	0.4	42	AK323415	AK323415 Sequence
33	23.4	0.4	42	AK323416	AK323416 Sequence
34	23.4	0.4	42	AK323417	AK323417 Sequence
35	23.4	0.4	42	AK323418	AK323418 Sequence
36	23.4	0.4	42	AK323419	AK323419 Sequence
37	23.4	0.4	42	AK323420	AK323420 Sequence
38	23.4	0.4	42	AK323421	AK323421 Sequence
39	23.4	0.4	42	AK323422	AK323422 Sequence
40	23.4	0.4	42	AK323423	AK323423 Sequence
41	23.4	0.4	42	AK323424	AK323424 Sequence
42	23.4	0.4	42	AK323425	AK323425 Sequence
43	23.4	0.4	42	AK323426	AK323426 Sequence
44	23.4	0.4	42	AK323427	AK323427 Sequence
45	23.4	0.4	42	AK323428	AK323428 Sequence

ALIGNMENTS

RESULT 1	131473	44 bp	DNA	Linear	PKT 06-FEB-1997
DEFINITION	Sequence 385 from patent US 5582979.				
ACCESSION	131473				
VERSION	131473.1	GI:182264			
KEYWORDS	UNKNOWN.				
SOURCE	UNKNOWN.				
ORGANISM	UNKNOWN.				
REFERENCE	1 (bases 1 to 44)				
AUTHORS	Weber J.L.				
TITLE	Length polymorphisms in (dc-da).sub.n.(dg-dt).sub.n sequences and method of using the same				
JOURNAL	Patent: US 5582979-A 385 10-DEC-1996;				

Pred. No. is the number of results predicted by chance to have a

FEATURES						
source	Location/Qualifiers					
BASE COUNT	20 a 2 c 18 g 4 t					
ORIGIN						
Query Match	0.6%; Score 30.8; DB 6;					
Best Local Similarity	96.8%; Pred. No. 1.e+05;					
Matches	35; Conservative 0; Mismatches 7; Indels 0; Gaps 0;					
OY	983 GAGCGTCGCGACATCTTCCGAGCACTG 1013					
Db	1 GAGCGTCGCGACACTTGTTCGAGCACTG 31					
RESULT 2						
LOCUS	BD002934	31 bp	DNA	linear	PAT 31-JAN-2002	
DEFINITION	Gene composition and method.					
VERSION	BD002934.1					
KEYWORDS	JP 2000245487-A/600.					
SOURCE	unidentified.					
ORGANISM	unclassified.					
REFERENCE	1. (bases 1 to 31)					
AUTHORS	Sha,N., Wallington,J. and Patel,N.					
JOURNAL	Genet Comp Sci Meth Genet Engin 2002;16(1):1-12 Patent JP 2000245487-A 600 12-SEP-2000; AFIMERICS INC					
COMMENT	OS Unknown PN JP 2000245487-A/600 BP 12-SEP-2000 PP 27-JAN-2000 JP 2000019392 PR 27-JAN-1993 US 09/228 402 PS 27-MAR-2000 WO 99/015250 PATEL PC C12N5/09,C12Q1/68,C12N1/200 CC					
FEATURES	Key Location/Qualifiers					
source	FT source 1..31 /organism='unknown'. Location/Qualifiers 1..31 /label='unidentified' //db_xref='taxon:32644'					
BASE COUNT	5 a 10 c 8 g 7 t					1 others
ORIGIN						
Query Match	0.6%; Score 30.6; DB 6;					
Best Local Similarity	96.8%; Pred. No. 1.e+05;					
Matches	35; Conservative 1; Mismatches 0; Indels 0; Gaps 0;					
OY	983 GAGCGTCGCGACATCTTCCGAGCACTG 1013					
Db	1 GAGCGTCGCGACACTTGTTCGAGCACTG 31					
RESULT 3						
LOCUS	BD002935	31 bp	DNA	linear	PAT 31-JAN-2002	
DEFINITION	Gene composition and method.					
ACCESSION	BD002935					
VERSION	BD002935.1					
KEYWORDS	JP 2000245487-A/601.					
SOURCE	unidentified.					
ORGANISM	unclassified.					
REFERENCE	1. (bases 1 to 31)					
AUTHORS	Sha,N., Wallington,J. and Patel,N.					
TITLE	Gene composition and method					
JOURNAL	Patent: JP 2000245487-A 601 12-SEP-2000; AFIMERICS INC					
COMMENT	OS Unknown					

[illegible]

KEYWORDS	BD002937.1 GI:18630898
SOURCE	JP 2000245487-A/603.
ORGANISM	unidentified.
REFERENCE	unclassified
AUTHORS	1 (bases 1 to 31)
TITLE	She,N., Wallinton,J. and Patel,N.
JOURNAL	Gene composition and method
COMMENT	Patient: JP 2000245487-A. 603 12-SEP-2000; AFIMETRICS INC
OS	Unknown
PN	JP 2000245487-A/603
PP	JP 2000245487-A/603
PR	12-SEP-2000 JP 2000019392
PT	27-JUN-1999 US 09/238.402
PI	NIRA SHA,JANEI WALINTON,NIRA PATEL
PC	C12N15/09,C12O1/68,C12N15/00
CC	
FH	Location/Qualifiers
FT	Key source 1..31 Location/Qualifiers
FEATURES	/organism='unknown'. source 1..31 Location/Qualifiers
BASE COUNT	g a 9 c 10 t 8 g 3 t 1 others
ORIGIN	
Query Match	0.64; Score 30.6; DB 6;
Best Local Similarity	96.84; Pred.No.1de5;
Matches	30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY	3464 TCCGAGCAGCATCGACGCCCAATGC 3494
Dn	1 TCCGAGCAGCATCGACGCCCAATGC 31
RESULT 9	
LOCUS	BD002938 31 bp DNA lncar PAT 31-JUN-2002
DEFINITION	Gene composition and method.
ACCSSION	BD002938
VERSION	BD002938.1 GI:18630899
DESCRIPTION	JP 2000245487-A/604.
SOURCE	unclassified
ORGANISM	unclassified.
REFERENCE	1 (bases 1 to 31)
AUTHORS	She,N., Wallinton,J. and Patel,N.
TITLE	Gene composition and method
JOURNAL	Patient: JP 2000245487-A. 604 12-SEP-2000; AFIMETRICS INC
COMMENT	
OS	Unknown
PN	JP 2000245487-A/604
PP	JP 2000245487-A/604
PR	12-SEP-2000
PT	27-JUN-2000 JP 2000019392
PI	27-JUN-1999 US 09/238.402
PL	NIRA SHA,JANEI WALINTON,NIRA PATEL
PC	C12N15/09,C12O1/68,C12N15/00
CC	
FH	Location/Qualifiers
FT	Key source 1..31 Location/Qualifiers
FEATURES	/organism='unknown'. source 1..31 Location/Qualifiers
BASE COUNT	g a 9 c 10 t 8 g 3 t 1 others
ORIGIN	
Query Match	0.64; Score 30.6; DB 6;
Best Local Similarity	96.84; Pred.No.1le+05;
Matches	30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY	3999	AACACCGAGCTCCGCAATCACGCAGCAGACC	4029
Db	1	AACACCGAGCTCCGCAATCACGCAGCAGACC	31
RESULT 7			
LOCUS	BD002939	Gene composition and method.	31 bp DNA linear PAT 31-JAN-2002
DEFINITION	BD002939		
ACCESSION	BD002939.1	GI:18630900	
VERSION	JF 2000245487-A/605.		
SOURCE	unclassified.		
ORGANISM	unclassified.		
REFERENCE	1 (bases 1 to 31)		
AUTHORS	Sha,N., Wallinton,J. and Patel,N.		
TITLE	Gene composition and method		
JOURNAL	Patent: JP 2000245487-A 605 12-SEP-2000;		
COMMENT	AFIMERICS INC		
ORIGIN	Unknown		
PR	JP 2000245487-A/605		
PP	JP 2000245487-A/605		
PE	27-JAN-2000 JP 2000019392		
PF	27-JAN-1999 US 09/228 402		
PI	NIRA SHA,JANEI WALLINTON,NIRA PATEL		
PC	C12N15/09,C12O1/66,C12N15/00		
CC			
FH	Key Location/Qualifiers		
FT	Source	1..31	'organism='unknown'
FEATURES	source	Location/Qualifiers	
		1..31	'organism='unidentified'
		/db_xref="taxon:33644"	
BASE COUNT	7 a 10 c 8 g 5 t		1 others
ORIGIN			
Query Match			
Detect Local Similarity	96.8%	Score 30.6; DB 6;	Length 31:
Matches 30; Conservative 17 Mismatches 0;			
Oy 4069 CCATGCACTAAGCCCTCATGGTACGCCAC 4099			
Db 1 CCATGCACTGAAGCCCTCATGGTACGCCAC 31			
RESULT 8			
LOCUS	BD002940	31 bp DNA linear PAT 31-JAN-2002	
DEFINITION	BD002940		
ACCESSION	BD002940		
VERSION	1 GI:18630901		
KEYWORDS	JP 2000245487-A/606.		
SOURCE	unidentified.		
ORGANISM	unclassified.		
REFERENCE	1 (bases 1 to 31)		
AUTHORS	Sha,N., Wallinton,J. and Patel,N.		
TITLE	Gene composition and method		
JOURNAL	Patent: JP 2000245487-A 606 12-SEP-2000;		
COMMENT	AFIMERICS INC		
ORIGIN	Unknown		
OS	Unknown		
PN	JP 2000245487-A/606		
PD	12-SEP-2000 JP 2000019392		
PP	27-JAN-1999 US 09/228 402		
PI	NIRA SHA,JANEI WALLINTON,NIRA PATEL		
PC	C12N15/09,C12O1/66,C12N15/00		
CC			
FH	Key Location/Qualifiers		
FT	Source	1..31	

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FEATURES          FT          Location/Qualifiers
source            1..31
                  /organism="unknown"

BASE COUNT       2 a          9 c          10 t          1 others
ORIGIN
Query Match      0.6%: Score 30.6; DB 6; Length 31;
Best Local Similarity 96.8%; Pred. No. 1.1e+05;
Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 4310 TCTGGGTCCCACTGCTGCTGTGGTACTTGG 4340
DB 1 TCTGGGTCCCACTGCTGCTGTGGTACTTGG 31

RESULT 9
LOCUS            BD002941          31 bp          DNA          Linear          PAT 31-JAN-2002
DEFINITION      Gene composition and method.
ACCESSION       BD002941
VERSION         BD002941.1 GI:18630902
KEYWORDS        JP 2000245487-A/607.
SOURCE          unidentified.
ORGANISM        unclassified.
REFERENCE       1 (bases 1 to 31)
AUTHORS        Sha N., Walinton,J., and Patel,N.
JOURNAL        Patent:JP 2000245487-A 607 12-SEP-2000;
JOURNAL        AFMETRICS INC
COMMENT         OS Unknown
                PN JP 2000245487-A/607
                PD 12-SEP-2000
                PE 27-JAN-2000 JP 2000019392
                PR 27-JAN-1999 US 09/238,402
                PT NIRA SHA,JANET WALINTON,NIRA PATEL
                PC C12N15/09,C12O1/68,C12N15/00
                CC
                FH Key Location/Qualifiers
                FT source 1..31
                FT          /organism="unknown".

FEATURES
source          1..31
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                /db_xref="taxon:32644"

BASE COUNT      4 a          9 c          11 g          6 t          1 others
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Best Local Similarity 96.8%; Pred. No. 1.1e+05;
Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 4339 GGGACCCAGGCGCTGTGAGGCGGCACAT 4369
DB 1 GGGACCCAGGCGCTGTGAGGCGGCACAT 31

RESULT 10
LOCUS            BD002942          31 bp          DNA          Linear          PAT 31-JAN-2002
DEFINITION      Gene composition and method.
ACCESSION       BD002942
VERSION         BD002942.1 GI:18630903
KEYWORDS        JP 2000245487-A/608.
SOURCE          unidentified.
ORGANISM        unclassified.
REFERENCE       1 (bases 1 to 31)
AUTHORS        Sha N., Walinton,J., and Patel,N.
JOURNAL        Patent:JP 2000245487-A 608 12-SEP-2000;
JOURNAL        JOURNAL

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COMMENT          AFMETRICS INC
OS              Unknown
PN              JP 2000245487-A/608
PD              12-SEP-2000
PE              27-JAN-2000 JP 2000019392
PR              27-JAN-1999 US 09/238,402
PT              NIRA SHA,JANET WALINTON,NIRA PATEL
PC              C12N15/09,C12O1/68,C12N15/00
CC
FH              Key Location/Qualifiers
FT              source 1..31
FT              Location/Qualifiers
FT              /organism="unknown".

FEATURES
source          1..31
                Location/Qualifiers
                /organism="unidentified"
                /db_xref="taxon:32644"

BASE COUNT      5 a          8 c          8 t          1 others
ORIGIN
Query Match      0.6%: Score 30.6; DB 6; Length 31;
Best Local Similarity 96.8%; Pred. No. 1.1e+05;
Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 4722 GCTTAGCTTAAGTCCCGGGGCTTCGGCAT 4752
DB 1 GCTTAGCTTAAGTCCCGGGGCTTCGGCAT 31

RESULT 12
LOCUS            AR178318          50 bp          DNA          Linear          PAT 20-APR-2002

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[illegible]

TITLE	Targeted Angioogenesis						
JOURNAL	Patient: NO 0075329-A 16 14-DEC-2000;						
EDWARDS Lifesciences Corporation (US) : Baxter Aktiensellschafft (AT)							
FEATURES	Location/Qualifiers						
source	1..30 lam="synthetic construct" /db_xref="taxon:32630"						
BASE COUNT	/note="amended oligonucleotide"						
ORIGIN	3 a 16 c 27 g 4 t						
Query Match	0.5% ; Score 25.8 ; DB 6; Length 50;						
Best Local Similarity	73.3% ; Pctd. No. 1.4e+06;						
Matches 33; Conservative 0; Mismatches 12;	Indels 0; Gaps 0						
Oy 3898 AGCAGCGACGCCGCGCCACGCCGACGCCTGGCCGTCGTGCGT 3942							
Db 48 AGCGCGCCGCCGCGCGCGCGCGCGCGCGCGCGCGCGCGAG 4							
RESULT 35	VSCMP032 43 bp DNA linear PIN 04-AUG-1999						
LOCUS 0032	yeast [S.cerevisiae] mitochondrial petite mutant excision seq 3, right end.						
ACCESSION	J01517.1 GI:343850						
VERSION	2 of 2						
KEYWORDS	AT-rich region; GC rich region.						
SOURCE	Yeast [Saccharomyces cerevisiae] mitochondrial DNA.						
ORGANISM	Baker's yeast [Saccharomyces cerevisiae] Mitochondrion Saccharomyces cerevisiae Eukaryotes; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Saccharomyces. 1 (bases 1 to 43) de Zamatoczy,M., Fauveron-Fonty,G. and Bernardi,G. Excision sequences in the mitochondrial genome of yeast [Saccharomyces cerevisiae]. Genomics 22(3), 193-202 (1993) 85210931 634188 PUBLISHED						
REFERENCE	Additional sequences reported in [1], but sequenced in earlier papers, appear in separate entries. Excision repeat corresponds to bases 11 to 33.						
COMMENT							
FEATURES	Location/Qualifiers						
source	1..43 lam="Saccharomyces cerevisiae" /organism="mitochondrion" /db_xref="taxon:4932"						
BASE COUNT	20 a 20 g 4 c 4 g 15 t						
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Query Match	0.5% ; Score 25.4 ; DB 8; Length 43;						
Best Local Similarity	82.9% ; Pctd. No. 1.3e+06;						
Matches 29; Conservative 6; Mismatches 6;	Indels 0; Gaps 0						
Oy 4409 TATTGATAAATAATTAATTAATAATAATGAAGGC 4443							
Db 3 TATTATTAAATTAATTAATTAATAATTAATGAAGTC 37							
Search completed: March 12, 2003, 00:54:47							
Std time : 13185 secs							

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The *invention* relates to the isolation of polymorphic repeat sequences having the sequence (dc-4a)_n-(dc-47)_n which can be used as genetic markers. Primers based on these sequences can be used to detect these repeats, especially for use in e.g. paternity or maternity testing, human genetic analysis such as linkage analysis of genetic disease,

particular polymorphism. The presence of polymorphic sites are u

CC with phenotypic traits and for genetic mapping of phenotypic traits.

CC AAA7631 to AAA7962 represent sequence tags of human genomic DNA
 CC fragments containing polymorphic sites. The base occupying the
 CC polymorphic site is indicated using IUPAC-IUB nomenclature.

XX Sequence 31 BP; 5 A; 10 C; 8 G; 7 T; 1 other;

Query Match 0.68; Score 30.6; DB 21; Length 31;
 Best Local Similarity 96.8%; Pred. No. 9.1e+02;
 Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

DB 983 GAGCCTCTCCAGACATTGTCAGGAGCTG 103
 1 GAGCCTCTCCAGACATTGTCAGGAGCTG 31

RESULT 4

AAA79231 standard; DNA; 31 BP.

AAA79231;

20-NOV-2000 (first entry)

Human genomic DNA polymorphic site sequence tag SEQ ID NO:601.

Human genomic DNA; polymorphism; genome; allele-specific; primer;
 probe; hybridization; polymorphic site; forensic; paternity testing;
 medicine; phenotypic trait; genetic analysis; genetic mapping; ds.

OS Homo sapiens.

EP1024200-A2.

02-ANG-2000.

26-JAN-2000; 2000EP-0250023.

27-JAN-1999; 9905-0238402.

(AFRY-) AFRYMETRIX INC.

Pati1 N, Shah N, Warrington JA;

WPI; 2000-500198/45.

Human genomic polymorphic nucleic acid segments, allele specific
 primers and probes, and methods of analysis, useful for e.g. forensics,
 paternity testing, genetic mapping,
 Claim 1: Page 22; 141pp; English.

The present invention describes a nucleic acid segment of 10-100
 contiguous bases chosen from one of 632 fragments (AAA7631 to
 AAA7962), where the segment comprises a polymorphic site or an
 immediately adjacent base, or the complement of the segment. Also
 described are: (1) an allele-specific oligonucleotide that hybridizes to
 a sequence of the novelty; (2) an isolated nucleic acid comprising a
 sequence of the novelty where the polymorphic site within the sequence is
 occupied by a base other than the reference base indicated in the
 CC specification; and (3) analyzing a nucleic acid, comprising obtaining a
 sequence of the novelty, and determining a base occupying any one
 of the polymorphic sites of the novelty, and determining a base occupying
 a nucleic acid from an individual and determining a base occupying any one
 of the polymorphic sites of the novelty. The nucleic acid segments and
 method can be used to analyze an individual's nucleic acid sequences for
 the presence of polymorphisms. The method can also be used to test for a
 disease phenotype and correlate the presence of the phenotype with a
 particular polymorphism. The presence of polymorphic sites are useful
 for, e.g. forensics, paternity testing, correlation of polymorphisms
 with disease phenotypes, and for genetic mapping of phenotypic traits.
 AAA7631 to AAA7962 represent sequence tags of human genomic DNA
 fragments containing polymorphic sites. The base occupying the
 polymorphic site is indicated using IUPAC-IUB nomenclature.

Sequence 31 BP; 9 A; 7 C; 7 G; 7 T; 1 other;

Query Match 0.68; Score 30.6; DB 21; Length 31;
 Best Local Similarity 96.8%; Pred. No. 9.1e+02;
 Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

DB 1313 GAGCAGCTTCTGTCATTCATTAGACACG 1343
 1 GAGCAGCTTCTGTCATTCATTAGACACG 31

RESULT 5

AAA79232 standard; DNA; 31 BP.

AAA79232;

20-NOV-2000 (first entry)

Human genomic DNA polymorphic site sequence tag SEQ ID NO:602.

Human genomic DNA; polymorphism; genome; allele-specific; primer;
 probe; hybridization; polymorphic site; forensic; paternity testing;
 medicine; phenotypic trait; genetic analysis; genetic mapping; ds.

OS Homo sapiens.

EP1024200-A2.

02-ANG-2000.

26-JAN-2000; 2000EP-0250023.

27-JAN-1999; 9905-0238402.

(AFRY-) AFRYMETRIX INC.

Pati1 N, Shah N, Warrington JA;

WPI; 2000-500198/45.

Human genomic polymorphic nucleic acid segments, allele specific
 primers and probes, and methods of analysis, useful for e.g. forensics,
 paternity testing, genetic mapping,
 Claim 1: Page 22; 141pp; English.

The present invention describes a nucleic acid segment of 10-100
 contiguous bases chosen from one of 632 fragments (AAA7631 to
 AAA7962), where the segment comprises a polymorphic site or an
 immediately adjacent base, or the complement of the segment. Also
 described are: (1) an allele-specific oligonucleotide that hybridizes to
 a sequence of the novelty; (2) an isolated nucleic acid comprising a
 sequence of the novelty where the polymorphic site within the sequence is
 occupied by a base other than the reference base indicated in the
 CC specification; and (3) analyzing a nucleic acid, comprising obtaining a
 sequence of the novelty, and determining a base occupying any one
 of the polymorphic sites of the novelty, and determining a base occupying
 a nucleic acid from an individual and determining a base occupying any one
 of the polymorphic sites of the novelty. The nucleic acid segments and
 method can be used to analyze an individual's nucleic acid sequences for
 the presence of polymorphisms. The method can also be used to test for a
 disease phenotype and correlate the presence of the phenotype with a
 particular polymorphism. The presence of polymorphic sites are useful
 for, e.g. forensics, paternity testing, correlation of polymorphisms
 with disease phenotypes, and for genetic mapping of phenotypic traits.
 AAA7631 to AAA7962 represent sequence tags of human genomic DNA
 fragments containing polymorphic sites. The base occupying the
 polymorphic site is indicated using IUPAC-IUB nomenclature.

Sequence 31 BP; 13 A; 6 C; 5 G; 6 T; 1 other;

Query Match 0.68; Score 30.6; DB 21; Length 31;
 Best Local Similarity 96.8%; Pred. No. 9.1e+02;
 Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1535 GAAATTCGACGCTGATTAATGACGAAA 1565
 ID AATATTTTCTTTTCTTTTCTTTTCTTTT
 DB 1 GAAATTCGACGCTGATTAATGACGAAA 31

RESULT 6

AAAT9233
 ID AAAT9233 standard; DNA; 31 BP.

AAAT9233;
 20-NOV-2000 (first entry)

Human genomic DNA polymorphic site sequence tag SEQ ID NO:603.

Human; genomic DNA; polymorphism; genome; allele-specific; primer;
 probe; hybridisation; polymorphic site; forensic; paternity testing;
 medicine; phenotypic trait; genetic analysis; genetic mapping; da.
 Homo sapiens.

BP1024200-A2.

02-AUG-2000.

26-JAN-2000; 2000EP-0250023.

27-JAN-1999; 99US-0238402.

(AFFY-) AFFYMETRIX INC.

Patlil N. Shah N. Harrington JA;

WPI; 2000-500198/45.

Human genomic polymorphic nucleic acid segments, allele specific
 primers and probes, and methods of analysis, useful for e.g. forensics,
 paternity testing, genetic mapping,
 Claim 1; Page 22; 141pp; English.

The present invention describes a nucleic acid segment of 10-100
 continuous bases chosen from one of 632 fragments (AAAT9631 to
 AAAT9632), where the segment comprises a polymorphic site or an
 immediately adjacent base, or the complement of the segment. Also
 described are: (1) an allele-specific oligonucleotide that hybridises to
 a segment of the novelty; (2) an isolated nucleic acid comprising a
 sequence of the novelty where the polymorphic site within the sequence is
 indicated by a base other than the reference base indicated in the
 specification; and (3) analysing a nucleic acid, comprising obtaining a
 nucleic acid from an individual, and determining a base occupying any one
 of the polymorphic sites of the novelty. The nucleic acid segments and
 method can be used to analyse an individual's nucleic acid sequences for
 the presence of polymorphisms. The method can also be used to test for a
 disease phenotype and correlate the presence of the phenotype with a
 particular polymorphism. The presence of polymorphic sites are useful
 for e.g. forensics, paternity testing, correlation of polymorphisms
 with phenotypic traits and for genetic mapping of phenotypic traits.
 AAAT9631 to AAAT9632 represent sequence tags of human genomic DNA
 fragments containing polymorphic sites. The base occupying the
 polymorphic site is indicated using IUPAC-IUB nomenclature.

Sequence 31 BP; 9 A; 10 C; 8 G; 3 T; 1 other;

Query Match 0.64; Score 30.6; DB 21; Length 31;
 Best Local Similarity 96.84; Fred No. 9, 1e+02;
 Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3464 TCCAGACACAGAGTCAAGCCCACTGAC 3494
 ID TTTTCTTTTCTTTTCTTTTCTTTTCTTTT
 DB 1 TCCAGACACAGAGTCAAGCCCACTGAC 31

RESULT 7
 ID AAAT9234 standard; DNA; 31 BP.

AAAT9234;
 20-NOV-2000 (first entry)

Human genomic DNA polymorphic site sequence tag SEQ ID NO:604.

Human; genomic DNA; polymorphism; genome; allele-specific; primer;
 probe; hybridisation; polymorphic site; forensic; paternity testing;
 medicine; phenotypic trait; genetic analysis; genetic mapping; da.

Homo sapiens.

BP1024200-A2.

02-AUG-2000.

26-JAN-2000; 2000EP-0250023.

27-JAN-1999; 99US-0238402.

(AFFY-) AFFYMETRIX INC.

Patlil N. Shah N. Harrington JA;

WPI; 2000-500198/45.

Human genomic polymorphic nucleic acid segments, allele specific
 primers and probes, and methods of analysis, useful for e.g. forensics,
 paternity testing, genetic mapping,
 Claim 1; Page 22; 141pp; English.

The present invention describes a nucleic acid segment of 10-100
 continuous bases chosen from one of 632 fragments (AAAT9631 to
 AAAT9632), where the segment comprises a polymorphic site or an
 immediately adjacent base, or the complement of the segment. Also
 described are: (1) an allele-specific oligonucleotide that hybridises to
 a segment of the novelty; (2) an isolated nucleic acid comprising a
 sequence of the novelty where the polymorphic site within the sequence is
 specified by a base other than the reference base indicated in the
 specification; and (3) analysing a nucleic acid, comprising obtaining a
 nucleic acid from an individual, and determining a base occupying any one
 of the polymorphic sites of the novelty where the nucleic acid sequence is
 indicated by a base other than the reference base indicated in the
 specification. The method can also be used to test for a
 disease phenotype and correlate the presence of the phenotype with a
 particular polymorphism. The presence of polymorphic sites are useful
 for e.g. forensics, paternity testing, correlation of polymorphisms
 with phenotypic traits and for genetic mapping of phenotypic traits.
 AAAT9631 to AAAT9632 represent sequence tags of human genomic DNA
 fragments containing polymorphic sites. The base occupying the
 polymorphic site is indicated using IUPAC-IUB nomenclature.

Sequence 31 BP; 9 A; 13 C; 6 G; 2 T; 1 other;

Query Match 0.64; Score 30.6; DB 21; Length 31;
 Best Local Similarity 96.84; Fred No. 9, 1e+02;
 Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3999 AACACGACGCTCCGATCAGCCGACAGCC 4029
 ID TTTTCTTTTCTTTTCTTTTCTTTTCTTTT
 DB 1 AACACGACGCTCCGATCAGCCGACAGCC 31

RESULT 8
 ID AAAT9235 standard; DNA; 31 BP.
 DB 1 AAAT9235;
 AAAT9235;

XX EP1024200-A2.
 PN 02-AUG-2000.
 XX 26-JAN-2000; 2000EP-0250023.
 XX 27-JAN-1999; 99US-0238402.
 XX (AFY-) AFFYMETRIX INC.
 XX Patil N, Shah N, Warrington JA;
 XX WPI: 2000-500198/45.
 XX Human genomic polymorphic nucleic acid segments, allele specific
 PT primers and probes, and methods of analysis, useful for e.g. forensics,
 XX paternity testing, genetic mapping,
 XX Claim 1: Page 22; 141pp; English.
 CC The present invention describes a nucleic acid segment of 10-100
 CC contiguous bases chosen from one of 632 fragments (AAAT8631 to
 CC AAAT9262), where the segment comprises a polymorphic site or an
 CC immediately adjacent base, or the complement of the segment. Also
 CC described are: (1) an allele-specific oligonucleotide that hybridises to
 CC a segment of the novelty; (2) an isolated nucleic acid comprising a
 CC sequence of the novelty where the polymorphic site within the sequence is
 CC specified; and (3) a method of analysing a reference base indicated in the
 CC sequence of the novelty and determining a base occupying one
 CC of the polymorphic sites of the novelty. The nucleic acid segments and
 CC method can be used to analyse an individual's nucleic acid sequences for
 CC the presence of polymorphisms. The method can also be used to test for a
 CC disease phenotype and correlate the presence of the phenotype with a
 CC particular polymorphism. The presence of polymorphic sites are useful
 CC for forensic analysis, including correlation of polymorphisms
 CC with phenotypic traits and for genetic mapping.
 CC AAAT8631 to AAAT9262 represent sequence tags of human genomic DNA
 CC fragments containing polymorphic sites. The base occupying the
 CC polymorphic site is indicated using IUPAC-IUB nomenclature.
 XX Sequence 31 BP; 4 A; 9 C; 11 G; 6 T; 1 other;
 XX Query Match
 XX Best Local Similarity 96.8%; Score 30.6; DB 21; Length 31;
 XX Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 OY 4339 GGGACCCGCTGCTGCTGAGGCGCCATT 4369
 DB 1 GGGACCCGCTGCTGCTGAGGCGCCATT 31
 XX
 XX RESULT 11
 XX ID AAA79238 standard; DNA; 31 BP.
 XX AAAT9238;
 XX 20-NOV-2000 (first entry)
 XX Human genomic DNA polymorphic site sequence tag SEQ ID NO:608.
 XX Human genomic DNA polymorphism; genome; allele-specific; primer;
 XX probe; hybridisation; polymorphic site; forensic; paternity testing;
 XX medicine; phenotypic trait; genetic analysis; genetic mapping; ds.
 XX Homo sapiens.
 XX EP1024200-A2.
 XX 02-AUG-2000.

PF 26-JAN-2000; 2000EP-0250023.
 XX 27-JAN-1999; 99US-0238402.
 XX (AFY-) AFFYMETRIX INC.
 XX Patil N, Shah N, Warrington JA;
 XX WPI: 2000-500198/45.
 XX Human genomic polymorphic nucleic acid segments, allele specific
 PT primers and probes, and methods of analysis, useful for e.g. forensics,
 XX paternity testing, genetic mapping,
 XX Claim 1: Page 22; 141pp; English.
 CC The present invention describes a nucleic acid segment of 10-100
 CC contiguous bases chosen from one of 632 fragments (AAAT8631 to
 CC AAAT9262), where the segment comprises a polymorphic site or an
 CC immediately adjacent base, or the complement of the segment. Also
 CC described are: (1) an allele-specific oligonucleotide that hybridises to
 CC a segment of the novelty; (2) an isolated nucleic acid comprising a
 CC sequence of the novelty where the polymorphic site within the sequence is
 CC specified; and (3) a method of analysing a reference base indicated in the
 CC sequence of the novelty and determining a base occupying one
 CC of the polymorphic sites of the novelty. The nucleic acid segments and
 CC method can be used to analyse an individual's nucleic acid sequences for
 CC the presence of polymorphisms. The method can also be used to test for a
 CC disease phenotype and correlate the presence of the phenotype with a
 CC particular polymorphism. The presence of polymorphic sites are useful
 CC for forensic analysis, including correlation of polymorphisms
 CC with phenotypic traits and for genetic mapping.
 CC AAAT8631 to AAAT9262 represent sequence tags of human genomic DNA
 CC fragments containing polymorphic sites. The base occupying the
 CC polymorphic site is indicated using IUPAC-IUB nomenclature.
 XX Sequence 31 BP; 7 A; 7 C; 8 G; 8 T; 1 other;
 XX Query Match
 XX Best Local Similarity 96.8%; Score 30.6; DB 21; Length 31;
 XX Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 OY 4449 GATCGACACTGATGATGTCGCAAGTCTGT 4479
 DB 1 GATCGACACTGATGATGTCGCAAGTCTGT 31
 XX
 XX RESULT 12
 XX ID AAA79239 standard; DNA; 31 BP.
 XX AAAT9239;
 XX 20-NOV-2000 (first entry)
 XX Human genomic DNA polymorphic site sequence tag SEQ ID NO:609.
 XX Human genomic DNA polymorphism; genome; allele-specific; primer;
 XX probe; hybridisation; polymorphic site; forensic; paternity testing;
 XX medicine; phenotypic trait; genetic analysis; genetic mapping; ds.
 XX Homo sapiens.
 XX EP1024200-A2.
 XX 02-AUG-2000.
 XX 26-JAN-2000; 2000EP-0250023.
 XX 27-JAN-1999; 99US-0238402.
 XX (AFY-) AFFYMETRIX INC.

Wed Mar 12 09:25:02 2003

GenCore version 5.1.4.05.4578
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OM nucleic - nucleic search, using sw model

Run on: March 11, 2003, 20:53:31; Search time 161 seconds
(without alignments)
9860.406 Million cell updates/sec

Title: US-10-003-919-3
Perfect score: 5273
Sequence: 1 ctggagcgcgcgcacccacgcg.....atgtgcctctctctaaaa 5273

Scoring table: IDENTITY: NUC
Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 609818

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Database: Issued Patents.NA:
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5: /cgn2_6/pdata/1/lna/RTUS.COMB.seq:*
6: /cgn2_6/pdata/1/lna/bcct1seq1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
C 1	30.8	0.6	44	1	US-08-222-177A-385	Sequence 385, App
C 2	28.4	0.5	47	3	US-08-933-358-18	Sequence 18, Appl
C 3	26.8	0.5	48	3	US-08-933-358-20	Sequence 20, Appl
C 4	26.8	0.5	47	4	US-09-641-638-934	Sequence 934, App
C 5	25	0.5	47	4	US-09-641-638-935	Sequence 935, App
C 6	25	0.5	30	4	US-09-281-481A-4	Sequence 4, Appl1
C 7	24.8	0.5	38	4	US-08-481-481A-38	Sequence 38, Appl1
C 8	24.4	0.5	32	1	US-08-418-123A-12	Sequence 12, Appl
C 9	23.6	0.4	32	2	US-08-418-123A-15	Sequence 15, Appl
C 10	23.6	0.4	32	1	US-08-418-123A-9	Sequence 9, Appl1
C 11	23.4	0.4	35	1	US-08-418-123A-13	Sequence 13, Appl
C 12	23.4	0.4	36	1	US-08-418-123A-7	Sequence 7, Appl1
C 13	23.4	0.4	37	1	US-08-418-123A-10	Sequence 10, Appl
C 14	23.4	0.4	36	1	US-08-418-123A-11	Sequence 11, Appl
C 15	23.4	0.4	40	1	US-08-418-123A-8	Sequence 8, Appl1
C 16	23.4	0.4	41	1	US-08-418-123A-6	Sequence 6, Appl1
C 17	23.4	0.4	42	1	US-08-418-123A-4	Sequence 4, Appl1
C 18	23.4	0.4	43	1	US-08-418-123A-9	Sequence 9, Appl1
C 19	23.4	0.4	43	1	US-08-418-123A-10	Sequence 10, Appl1
C 20	23.4	0.4	43	1	US-08-418-123A-11	Sequence 11, Appl1
C 21	23.4	0.4	43	1	US-08-418-123A-12	Sequence 12, Appl1
C 22	23.4	0.4	43	1	US-08-418-123A-13	Sequence 13, Appl1
C 23	23.4	0.4	43	1	US-08-418-123A-14	Sequence 14, Appl1
C 24	22.6	0.4	48	2	US-08-808-474A-8	Sequence 8, Appl1
C 25	22.4	0.4	24	2	US-08-808-474A-9	Sequence 9, Appl1
C 26	22.4	0.4	24	2	US-08-808-474A-10	Sequence 10, Appl1
C 27	22.4	0.4	24	2	US-08-808-474A-11	Sequence 11, Appl1

C 28	22.4	0.4	24	2	US-08-808-474A-11	Sequence 11, Appl1
C 29	22.4	0.4	24	4	US-09-235-614-8	Sequence 8, Appl1
C 30	22.4	0.4	24	4	US-09-235-614-9	Sequence 9, Appl1
C 31	22.4	0.4	24	4	US-09-235-614-10	Sequence 10, Appl1
C 32	22.4	0.4	24	4	US-09-235-614-11	Sequence 11, Appl1
C 33	22.4	0.4	24	4	US-09-235-614-12	Sequence 12, Appl1
C 34	22.4	0.4	24	4	US-09-235-614-13	Sequence 13, Appl1
C 35	22.4	0.4	24	4	US-09-235-614-14	Sequence 14, Appl1
C 36	22.4	0.4	24	4	US-09-235-614-15	Sequence 15, Appl1
C 37	22.4	0.4	24	4	US-09-235-614-16	Sequence 16, Appl1
C 38	22.4	0.4	24	4	US-09-235-614-17	Sequence 17, Appl1
C 39	22.4	0.4	24	4	US-09-235-614-18	Sequence 18, Appl1
C 40	22.4	0.4	24	4	US-09-235-614-19	Sequence 19, Appl1
C 41	22.4	0.4	24	4	US-09-235-614-20	Sequence 20, Appl1
C 42	22.4	0.4	24	4	US-09-235-614-21	Sequence 21, Appl1
C 43	22.4	0.4	24	4	US-09-235-614-22	Sequence 22, Appl1
C 44	22.4	0.4	24	4	US-09-235-614-23	Sequence 23, Appl1
C 45	22.4	0.4	24	4	US-09-235-614-24	Sequence 24, Appl1

ALIGNMENTS

RESULT 1
US-08-222-177A-385/C
Sequence 385, Application US/08222177A
Patent No. 5,829,385
Genetic Information:
APPLICANT: Webber, James L.
TITLE OF INVENTION: LENGTH POLYMORPHISMS IN
SEQUENCE 385, Application US/08222177A
NUMBER OF SEQUENCES: 460
CORRESPONDENCE ADDRESS:
JAMES L. WEBBER, 5000 E STEWARTS, S.C.
STREET 8000 Excelsior Drive, Suite 101
CITY: Madison
STATE: Wisconsin
COUNTRY: USA
ZIP: 53717-1914
COMPUTER READABLE FORM:
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/222,177A
FILING DATE: 1989-04-13
PRIORITY INFORMATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/341,562
FILING DATE: 21-APR-1989
ATTORNEY/AGENT INFORMATION:
NAME: Sato, Charles S.
REGISTRATION NUMBER: 6,492
ADDRESS: 10080 S. 100th St., Suite 200
TELEPHONE: (608) 831-2100
TELEFAX: (608) 831-2106
TELEX:
INFORMATION FOR SEQ ID NO: 385:
SEQUENCE CHARACTERISTICS:
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
IMMEDIATE SOURCE:
CLONE: M81218
US-08-222-177A-385
Query Match 0.68; Score 30.8; DB 1; Length 44;
Best Local Similarity 83.3%; Pred. No. 65;
Matches 35; Conservative 0; Mismatches 7; Indels 0;


```

US-09-263-959-766
1 Sequence 766, Application US/09263959
2 Patent No. US20020150891A1
3
4 GENERAL INFORMATION:
5 APPLICANT: HOGG, LEROY E.
6 INVENTOR: HOGG, LEROY E.
7 APPLICANT: KODD, BEN F.
8 TITLE OR INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTILIZE OLIGONUCLEOTIDES
9 NUMBER OF SEQUENCES: 1279
10 CORRESPONDENCE ADDRESS:
11 ADDRESSEE: Seed and Berry LLP
12 STREET: 6300 Columbia Center, 701 Fifth Avenue
13 CITY: Seattle
14 STATE: Washington
15 COUNTRY: US
16 PCT NO.: 98/01047092
17
18 COMPUTER READABLE FORM:
19 MEDIUM TYPE: Floppy disk
20 COMPUTER: IBM PC compatible
21 OPERATING SYSTEM: PC-DOS/MS-DOS
22 SOFTWARE: PatentIn Release #1.0, Version #1.25
23
24 CURRENT APPLICATION DATA:
25 APPLICATION NUMBER: US/09/263,959
26 FILING DATE: 05-MAR-1999
27 PRIORITY:
28 PRIORITY INFORMATION:
29 AUTOMATED/AGENT INFORMATION:
30 NAME: Mcmasters, David D.
31 REGISTRATION NUMBER: 33,963
32 REFERENCE/DOCKET NUMBER: 920010,426C2
33 TELECOMMUNICATION INFORMATION:
34 TELEPHONE: (206) 622-4900
35 TELEFAX: (206) 682-6031
36 INFORMATION FOR SEQ ID NO: 766:
37
38 SEQUENCE CHARACTERISTICS:
39 LENGTH: 37 base pairs
40 TYPE: nucleic acid
41 STRANDNESS: single
42 TOPOLOGY: linear
43
44 US-09-263-959-766
45
46 Query Match 0.5%; Score 25.6; DB 10; Length 37;
47 Best Local Similarity 87.5%; Prod. No. 1.4e+03;
48 Matches 28; Conservative 4; Mismatches 4; Indels 0; Gaps 0;
49
50 Oy 4408 AAAATGCTAAATTAATTAATTAATTAATTAAT 4439
51
52 Db 2 AATAATATATATATATATATATATATATATATAT 33
53
54 RESULT 3
55 US-09-735-363A-6
56 Sequence 6, Application US/09735363A
57 Patent No. US20010041681A1
58
59 GENERAL INFORMATION:
60 APPLICANT: FISHBURN, MARLO
61 INVENTOR: FISHBURN, MARLO
62 APPLICANT: PHILLIPS, NIGEL
63 TITLE OR INVENTION: Therapeutically Useful Synthetic Oligonucleotides
64 FILE REFERENCE: 02811-0181
65
66 CURRENT APPLICATION NUMBER: US/09/735,363A
67 PRIOR APPLICATION DATE: 2000-12-12
68 PRIOR APPLICATION NUMBER: 60/770,325
69 PRIOR FILING DATE: 1999-12-13
70 PRIOR APPLICATION NUMBER: 60/228,925
71 PRIOR FILING DATE: 2000-08-29
72 NUMBER OF SEQUENCES: 1279
73 SOFTWARE: PatentIn Version 3.0
74 SBO ID NO: 6
75 LENGTH: 27
76 TYPE: DNA
77
78 ORGANISM: Artificial Sequence
79 FEATURE:
80 OTHER INFORMATION: Synthetic Oligonucleotide
81
82 US-09-735-363A-6

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Query Match          0.5%; Score 24.4; DB 10; Length 27;
Best Local Similarity 96.2%; Pred. No. 2.5e+03;
Matches    25; Conservative   0; Mismatches    1; Indels      0; Gaps      0;

OY     270 CCGCTGCTCCCTTTCCTGCCTCCTCCTCCT 295
        ||| | | | | | | | | | | | | | | | | |
DB     2 CGCTGTCTCTGCTGCTGCTGCTCTCTCT 27

RESULT 4
US-09-263-959-474/c
Sequence 474, Application US/09263959
Patent No. US20020150891A1
GENERAL INFORMATION:
APPLICANT: Genzyme Corporation, Leroy E.
INVENTOR: Bowen, Lee
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH D
NUMBER OF SEQUENCES: 1279
CORRESPONDENCE ADDRESSES:
ADDRESS: Seed and Berry LLP
ATTORNEY: Seed & Berry
STREET: 6300 Columbia Center, 701 Fifth Avenue
SUITE: 3600 New York, New York 10017
COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MK DOS
CURRENT APPLICATION DATA: PCT SERIAL NO. 99/02317, Release 11.0, Version 11.25
APPLICATION NUMBER: US/09/263, 959
FILING DATE: 05-MAR-1999
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McWaters, David D.
REGISTRATION NUMBER: 31,963
REFERENCE/Docket Information: REGISTRATION NO. 1001010.426C2
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 474:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRUCTURE: single
REMARKS: linear
US-09-263-959-474

Query Match          0.5%; Score 24.4; DB 10; Length 28;
Best Local Similarity 96.2%; Pred. No. 2.6e+03;
Matches    25; Conservative   0; Mismatches    1; Indels      0; Gaps      0;

OY     4414 AATGAATAAGTAATTTAAATGAATGAAT 4439
        ||| | | | | | | | | | | | | | | | | |
DB     28 ATATATATATATATATATATATATATAT 3

RESULT 5
US-09-740-002-4/c
Sequence 4, Application US/09740002
Patent No. US20020001798A1
GENERAL INFORMATION:
APPLICANT: BRAMS, PETER
INVENTOR: MORROW, PHILIP
TITLE OF INVENTION: NEURALIZING HIGH AFFINITY HUMAN MONOCLONAL ANTIBODIES
TITLE OR INVENTION: SPECIFIC TO RSV F-PROTEIN AND METHODS FOR THEIR
FILE REFERENCE: 037003-0275759
CURRENT APPLICATION NUMBER: US/09/740,002
CURRENT FILING DATE: 2000-12-20
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US-09-263-959-862/c
Sequence 862, Application US/09263959
GENERAL INFORMATION:
APPLICANT: Hood, Leroy E.
APPLICANT: Rowen, Lee
APPLICANT: Koop, Ben F.
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTI
NUMBER OF SEQUENCES: 2179
ADDRESSES: Seed and Berry LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: US
COMPUTER READABLE FORM:
MEDIAN TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/09-263-959
FILING DATE: 05-MAR-1999
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 862:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRUCTURE: single
TOPOLOGY: linear
US-09-263-959-862

Query Match
Best Local Similarity 95.8%; Score 22.4; DB 10; Length 24;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4416 AATAATTAATTAATTAATTAAT 4439
DB 24 AATAATTAATTAATTAATTAAT 1

RESULT 10
US-09-988-899-55/c
Sequence 55, Application US/09988899
Patent No. US2002010213A1
GENERAL INFORMATION:
APPLICANT: HOGGENBOOM, HENRICUS R.J.M.
TITLE OF INVENTION: NOVEL FAB FRAGMENT LIBRARIES AND METHOD FOR THEIR USE
CURRENT APPLICATION NUMBER: US/09/988,899
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: PCT/US00/13682
PRIOR FILING DATE: 2000-05-18
PRIOR APPLICATION NUMBER: 99201558.6
PRIOR FILING DATE: 1999-05-18
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 55
LENGTH: 44
TYPE: DNA
ORGANISM: Artificial Sequence
DESCRIPTION: Description of Artificial Sequence: Primer
US-09-988-899-55

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Query Match
Best Local Similarity 67.4%; Score 21.8; DB 10; Length 44;
Matches 29; Conservative 1; Mismatches 13; Indels 0; Gaps 0;

QY 2524 GTGACGAGCTCTGCGAGGTCTTATCCCTGTGTGACGCTGCT 2566
DB 43 GAGACTGTGCTACGTGAGTGTCAAGTGTGCTGTGAGACGCT 1

RESULT 11
US-09-853-526-272
Sequence 272, Application US/09853526
Patent No. US20020165145A1
GENERAL INFORMATION:
APPLICANT: Bouguetel, Lydie
APPLICANT: Blumentfeld, Marta
APPLICANT: Ilya, Chumakov
TITLE OF INVENTION: PROSTATE CANCER GENE
FILE REFERENCE: GENSET.1BCP1CP
CURRENT APPLICATION NUMBER: US/09/853,526
PRIOR APPLICATION NUMBER: 09/238,907
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: 08/996,306
PRIOR FILING DATE: 1997-12-22
PRIOR APPLICATION NUMBER: 60/099,658
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 09/218,207
PRIOR FILING DATE: 1998-12-22
NUMBER OF SEQ ID NOS: 578
SOFTWARE: Patent .pm
SEQ ID NO 272
LENGTH: 47
TYPE: DNA
ORGANISM: Homo Sapiens
FEATURES:
NAME/KEY: allele
LOCATION: 1..47
OTHER INFORMATION: polymorphic fragment 4-38-63, variant version of SEQ ID195
NAME/KEY: allele
LOCATION: 24
OTHER INFORMATION: base G ; A in SEQ ID195
NAME/KEY: primer_bind
LOCATION: 1..23
OTHER INFORMATION: potential microsequencing oligo 4-38-63.m1a2
NAME/KEY: primer_bind
LOCATION: 25..47
OTHER INFORMATION: complement potential microsequencing oligo 4-38-63.m1a2
US-09-853-526-272

Query Match
Best Local Similarity 75.0%; Score 21.6; DB 9; Length 47;
Matches 27; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 2144 AATGGAAGAAAGCAATCGGCAAGCAAGCAATAT 2179
DB 4 AACTTAAAGAAATCAAGCGAGCGTAACTTTT 39

RESULT 12
US-09-901-484A-272
Sequence 272, Application US/09901484A
Patent No. US2002019460A1
GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
APPLICANT: Blumentfeld, Marta
APPLICANT: Chumakov, Ilya
APPLICANT: Bouguetel, Lydie
TITLE OF INVENTION: PROSTATE CANCER GENE
FILE REFERENCE: GEN-T111X13D
CURRENT APPLICATION NUMBER: US/09/901,484A
CURRENT FILING DATE: 2001-07-09

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1 PRIOR APPLICATION NUMBER: US 08/996,306
2 PRIOR FILING DATE: 1997-12-22
3 PRIOR APPLICATION NUMBER: US 60/099,658
4 PRIOR FILING DATE: 1998-09-09
5 PRIOR APPLICATION NUMBER: US 09/218,207
6 PRIOR FILING DATE: 1998-12-22
7 PRIOR APPLICATION NUMBER: US 09/338,907
8 PRIOR FILING DATE: 1999-06-23
9 PRIOR APPLICATION NUMBER: US 09/853,526
10 PRIOR FILING DATE: 2001-05-11
11 NUMBER OF SEQ ID NOS: 578
12 SOFTWARE: PatentIn version 3.1
13 SEQ ID NO: 212
14 LENGTH: 47
15 TYPE: DNA
16 ORGANISM: Homo sapiens
17 FEATURE:
18 NAME/KEY: allele
19 LOCATION: (1)..(47)
20 OTHER INFORMATION: polymorphic fragment 4-38-63, variant version of SEQ ID 195
21 NAME/KEY: allele
22 LOCATION: (1)..(47)
23 OTHER INFORMATION: polymorphic base G; A in SEQ ID 195
24 NAME/KEY: primer:blind
25 LOCATION: (1)..(23)
26 OTHER INFORMATION: potential microsequencing oligo 4-38-63.m1
27 NAME/KEY: primer:blind
28 LOCATION: (25)..(47)
29 OTHER INFORMATION: complement potential microsequencing oligo 4-38-63.m152
30 US-09-901-484A.212

Query Match      0.4% Score 21.6; DB 10; Length 47;
Best Local Similarity 75.0%; Pred. No. 2.2e+04;
Matches 27; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 2144 AAGTGAAGAAAGAACTCAGCGCAACCAACCACTAT 2179
Db 4 AAGTGAAGAAAGAACTCAGCGCAACCACTATTTT 39

RESULT 13
1 Sequence 13, Application US/09845160
2 Patent No. US20020058045A1
3 GENERAL INFORMATION:
4 APPLICANT: MIYODUCHI, HIROYUKI
5 APPLICANT: MIYODUCHI, HIROYUKI
6 TITLE OF INVENTION: METHODS FOR INTRODUCING
7 FILE REFERENCE: 08156/0163
8 CURRENT APPLICATION NUMBER: US/09/845,160
9 CURRENT FILING DATE: 2001-05-01
10 PRIOR APPLICATION NUMBER: JP 2001-131688
11 PRIOR FILING DATE: 2001-04-27
12 PRIOR APPLICATION NUMBER: JP 2000-161577
13 PRIOR FILING DATE: 2000-05-31
14 NUMBER OF SEQ ID NOS: 14
15 SOFTWARE: PatentIn Ver. 2.1
16 SEQ ID NO 13
17 LENGTH: 42
18 TYPE: DNA
19 ORGANISM: Artificial Sequence
20 FEATURE:
21 OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide 7.
22 US-09-845-160-13

Query Match      0.4% Score 21.2; DB 10; Length 42;
Best Local Similarity 69.0%; Pred. No. 2.4e+04;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 3922 CCGCCGCGGCGCGCTGACGATCAAGCGCGCGCGCTGCG 3963
Db 1 CGCAGCGCGCGCGCGCTGACGATCAAGCGCGCGCTGCGCAGC 42
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1 RESULT 14
2 US-09-740-002-3/C
3 Sequence 3, Application us/09740002
4 Patent No. US200200198A1
5 GENERAL INFORMATION:
6 APPLICANT: BRIMS, PETER
7 APPLICANT: BRIMS, PETER
8 TITLE OF INVENTION: IDENTIFYING HIGH AFFINITY HUMAN MONOCLONAL ANTIBODIES
9 TITLE OF INVENTION: SPECIFIC TO RSV-PROTEIN AND THERAPY FOR THEIR
10 FILE REFERENCE: 037003-0275759
11 CURRENT APPLICATION NUMBER: US/09/740,002
12 CURRENT FILING DATE: 2000-12-20
13 PRIOR APPLICATION NUMBER: 09/335,697
14 PRIOR FILING DATE: 1999-06-18
15 PRIOR APPLICATION NUMBER: 08/486,376
16 PRIOR FILING DATE: 1995-06-07
17 NUMBER OF SEQ ID NOS: 27
18 SOFTWARE: PatentIn Ver. 2.1
19 SEQ ID NO 3
20 LENGTH: 47
21 TYPE: DNA
22 ORGANISM: Artificial Sequence
23 FEATURE:
24 OTHER INFORMATION: Description of Artificial Sequence: Primer
25 US-09-740-002-3

Query Match      0.4% Score 21.2; DB 10; Length 47;
Best Local Similarity 76.5%; Pred. No. 2.8e+04;
Matches 26; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 258 CAGGCGCGCGCGCTCTCTCTCTCTCTCTCTCTCTCTCT 291
Db 34 CACTGACACACCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1

RESULT 15
1 US-10-087-523-44
2 Sequence 44, Application US/10087523
3 Publication No. US20020197624A1
4 GENERAL INFORMATION:
5 APPLICANT: KALIN, Robert D.
6 APPLICANT: KALIN, Robert D.
7 TITLE OF INVENTION: METHODS OF CREATING CONSTRUCTS USEFUL FOR INTRODUCING
8 TITLE OF INVENTION: SEQUENCES INTO EMBRYONIC STEM CELLS
9 FILE REFERENCE: 376472000200
10 CURRENT APPLICATION NUMBER: US/10/087,523
11 CURRENT FILING DATE: 2002-02-28
12 PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/193,834
13 PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-17
14 NUMBER OF SEQ ID NOS: 44
15 SOFTWARE: PatsSeq for Windows Version 3.0
16 SEQ ID NO 44
17 LENGTH: 50
18 TYPE: DNA
19 ORGANISM: Plasmid vector
20 US-10-087-523-44

Query Match      0.4% Score 21; DB 9; Length 50;
Best Local Similarity 65.7%; Pred. No. 3.4e+04;
Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 4323 CTCCTCTCTGTCCTGAGCCGCCGCTGCGTGGAGCGGCA 4367
Db 5 CTCCTCTGTCCTGTCCTGAACTCAGATGCGAGATGTGTGGGACA 49

Search completed: March 12, 2003, 02:58:30
Job time : 321 secs
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[illegible]

TITLE
 Islam, H., Longacre, S., Mahmood, M., Meene, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Thigley, A., von Niederhausen, A.,
 and Wright, D., Weiss, R.
JOURNAL
 Mouse whole genome scaffolding with paired end reads from 10kb
 unpublished (2000)
COMMENT
 Contact: Robert B. Weiss
 University of Utah
 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., STC, OTS
 Rm. 411, Salt Lake City, UT 84143-0586 5656
 Fax: 801 583 7177
 Email: dunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0203 row: M column: 14
 Seq primer: CACACAGGAAACGCTGAC
 Class: plasmid ends
 High quality sequence stop: 41.
FEATURES
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 1 local:100/Qualities
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="DUGC10203M14"
 /clone_id="Mouse 10kb plasmid DUGC10 library"
 /sex="Male F." Coli strain XL10-gold, 11-resistant, F+
 /note="Construct: PM2429; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (<http://www.jax.org/resources/documents/ninres/>). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adapter DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pMD2 (914732119b) (AF129072.1), a copy-number
 inducible derivative of plasmid 421. The vectors were ligated
 with the sheared genomic DNA in the presence of T4 ligase
 and purified. The sheared, adapter mouse DNA was annealed to
 adapter vector DNA, and transformed into
 chemically-competent E. coli XL10-gold (Stratagene) cells
 and selected for ampicillin resistance."

